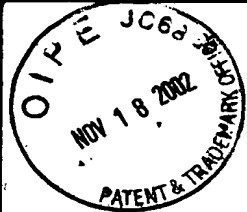


CCGGCGCGACTTGGGCCTGGCTCTGTGACTGAGGCGGCGGCGTGGCGGCCAAGCGGGATACGGGCGGCGGAGCTGGGGAACAGGCATG 90
GACGTTTCCGGGCAAGAGACCGACTGGCGGAGACCGCCTTCCGGCAGAAGCTGGTCAGTCAAATCGAGGATGCCATGAGGAAAGCTGGTG 180
M R K A G
TGGCACACAGTAAATCCAGCAAGGATATGGAGAGCCATGTTTTCTGAAGGCCAAGACCCGGGACGAATACCTTTCTCTCGTGGCCAGGC 270
V A H S K S S K D M E S H V F L K A K T R D E Y L S L V A R
TCATTATCCATTTTCGAGACATTCATAACAAGAAATCTCAAGCTTCCGTCACTGATCCTATGAATGCACTCCAGAGCCTGACTGGCGGAC 360
L I I H F R D I H N K K S Q A S V S D P M N A L Q S L T G G
CTGCTGCGGGAGCCGCTGGAATTGGCATGCCTCCTCGGGGCCCCGGGACAGTCTCTGGGCGGGATGGGTAGCTTTGGTGCCATGGGACAGC 450
P A A G A A G I G M P P R G P G Q S L G G M G S F G A M G Q
CAATGTCTCTCTCAGGGCAGCCGCTCCTGGGACCTCGGGGATGGCCCCCTCACAGCATGGCTGTCTGTCTACGGCAACTCCACAGACCC 540
P M S L S G Q P P P G T S G M A P H S M A V V S T A T P Q T
AGCTGCAGCTCCAGCAGGTGGCGCTGCAGCAGCAGCAGCAACAGCAGCAGTTCCAGCAGCAGCAGCAGGCGGCTACAGCAGCAGCAGC 630
Q L Q L Q Q V A L Q Q Q Q Q Q Q Q F Q Q Q Q Q A A L Q Q Q Q
AGCAGCAGCAACAGCAGCAGTTCCAGGCTCAGCAGAGTGCCATGCAGCAGCAGTTCCAAGCAGTAGTGCAGCAGCAGCAGCAGCTCCAGC 720
Q Q Q Q Q Q Q F Q A Q Q S A M Q Q Q F Q A V V Q Q Q Q Q L Q
AGCAGCAGCAGCAGCAGCAGCATCTAATTAAATTGCATCATCAAAATCAGCAACAGATACAGCAGCAGCAACAGCAGCTGCAGCGAATAG 810
Q Q Q Q Q Q Q H L I K L H H Q N Q Q Q I Q Q Q Q Q Q L Q R I
CACAGCTGCAGCTCCAACAACAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGGCTTTGGAGGCCAGCCACCAATTCAGC 900
A Q L Q L Q Q Q Q Q Q Q Q Q Q Q Q Q Q A L E A Q P P I Q
AGCCACCGATGCAGCAGCCACAGCCTCCGCCCTCCCAGGCTCTGCCCCAGCAGCTGCAGCAGATGCATCACACAGCACCACCAGCCGC 990
Q P P M Q Q P Q P P P S Q A L P Q Q L Q Q M H H T Q H H Q P
CACACAGCCCCAGCAGCCTCCAGTTGCTCAGAACCAACCATCAAACTCCCGCCACAGTCGCAGACCCAGCCTTTGGTGTACAGGCGC 1080
P P Q P Q Q P P V A Q N Q P S Q L P P Q S Q T Q P L V S Q A
AAGCTCTCCCTGGACAAATGTTGTATACCCAAACCACCACTGAAATTTGTCCGAGCTCCGATGGTGGTGCAGCAGCCCCCAGTGCAGCCCC 1170
Q A L P G Q Q M L Y T Q P P L K F V R A P M V V Q Q P P V Q P
AGGTGCAGCAGCAGCAGACAGCAGTACAGACAGCTCAGGCTGCCAGATGGTGGCTCCCGAGTCCAGGTCCAGCCAGAGCAGCCTCCCCA 1260
Q V Q Q Q Q T A V Q T A Q A A Q M V A P G V Q V S Q S S L P
TGCTGTCTCGCCGTCACCGGGCCAGCAGGTGCAGACCCCGCAGTCGATGCCCCCTCCCCCAGCCGTCCCCGCAGCCCCGGCCAGCCCA 1350
M L S S P S P G Q Q V Q T P Q S M P P P P Q P S P Q P G Q P
GCTCAGACCCCAACTCCAACGTCAGCTCTGGCCCTGCCCCATCTCCAGTAGCTTCTGCCCAGCCCCCTACCGCAGCCCCCTCCAGAGCC 1440
S S Q P N S N V S S G P A P S P S S F L P S P S P Q P S Q S
CAGTGACGGCGCGGACCCACAGAACTTCAGTGTCCCTCACCTGGACCTTTAAACACACCTGTGAACCCAGCTCTGTCTATGAGCCAG 1530
P V T A R T P Q N F S V P S P G P L N T P V N P S S V M S P
CTGGCTCCAGCCAGGCTGAGGAGCAGCAGTACCTGGACAAGCTGAAGCAGCTGTGCAAGTACATCGAGCCCCTGCGCCGCATGATCAACA 1620
A G S S Q A E E Q Q Y L D K L K Q L S K Y I E P L R R M I N
AGATCGACAAGAACGAAGACAGAAAAAAGACCTGAGTAAGATGAAGAGCCTTCTGGACATTCTGACAGACCCCTCGAAGCGGTGTCCCC 1710
K I D K N E D R K K D L S K M K S L L D I L T D P S K R C P

Fig. 4

RECEIVED
NOV 22 2002
TECH CENTER 1600/2900




TGAAGACCTTGCAAAAGTGTGAGATCGCCCTGGAGAACTCAAGAATGACATGCGGTGCCCACTCCCCACCGCCCCGGTGCCACCGAC 1800
L K T L Q K C E I A L E K L K N D M R C P L P H R P R C H R
CAAACAGCAGTACCTATGCCAGCCGCTCCTGGATGCCGTCTGGCCAACATCCGCTCACCTGTCTTCAACCATTCCCTGTACCGCACATT 1890
P N S S T Y A S R S W M P S W P T S A H L S S T I P C T A H
CGTTCCAGCCATGACCGCCATTACCGGCCACCCATCACGGCCCCAGTGGTGTGCACCCGAAGCGCAGGCTTGAGGATGATGAGCGGCA 1980
S F Q P 
GAGCATCCCCAGTGTGCTCCAGGGTGAGGTGGCCAGGCTGGACCCCAAGTTCCTGGTAAACCTGGACCTTCTCACTGCAGCAACAATGG 2070
CACTGTCCACCTGATCTGCAAGCTGGATGACAAGGACCTCCCAAGTGTGCCACCACTGGAGCTCAGTGTGCCCGCTGACTATCCTGCCCA 2160
AAGCCCGCTGTGGATAGACCGCAGTGGCAGTACGACGCCAACCCCTTCTCCTCAGTCCGTGCACCGCTGCATGACCTCCAGGCTGCTGC 2250
AGCTCCCGGACAAGCACTCGGTACCGCCTTGCTCAACACCTGGGCCAGAGCGTCCACAGGCTGCCTCTCAGCCGCTAGCCAAGAC 2340
TGCAGGGATGGCCCGCAGCCTCATCGGGGCCAAGGACACACGCCTCCTGTGACACCTTCTAGGTGTTGGCTTCTTAGAGAGCCTGGGG 2430
TTAGGTTAGCTTTCTGCTTTTATCTTCTGCTTGGGGACCTGCCAAACGAAATCCACACCTGTACAGAACTGGGATAGGCGCAGTGGA 2520
GCGGTTGCTTGGGGGGCGTTGGCCGACTTCTTAGAGAAGGCCCTCCATGTGACTTCTCCTCCAGGAGCCAGATGCGATCCTCAGGCTGCT 2610
CTCACCGTGGCCTGTCCACGGTCCAGGTCCATCTCAGCAGCGTGAGGGTGCACTCAGGGTGTGTTAGAGCGTCTCGTGTGTGCTAGACG 2700
CACCCCTACTCGTTCTTATAGAACACAGAGGACATAGGAAACCCCTTAAACACACATGGGATTCTCTGGTCACAGTTTTGGGTTTCAGGCT 2790
ATGCTGCTTTGGGCAGGTGGAGCACCCCCGAGGAAGCCTGCAAGTCCAGGGCACAGGCTGCCTTTTGGAGGGAGGGCTGGCCCATAGGT 2880
GCTGCTGGCTCCCCGCCACCACTGGGCCTCAGCCCTCACGGCATTCCTGTGAGCACCGTGGGGCACCCAGGGAGCAGGGGCGTCAGGG 2970
ATCCTGCTGCGGCACCCCTGTGCCGCTGGCATGAGGGCCGTGTCCCACTGTGAAGGATGAAGAGCAAGGCCCTCAGGACCCGTGTCCT 3060
CAGAGCACACACTGAGCACCCAGAGACAGCGGGCTTGGCAGCGGGCCGGCCATGCAGGGAGCGCCTCCCTATGTTGCCCTGCCACTC 3150
TGGGCACCGGCCAGCACCCCTCTGGTGAGAAGAGGTCCCCCTTTTATGTGCACTACCCACCATCTGTGATTATAATAAATTATTATT 3240
CCTGTGGA
AAAA 3334

Fig. 4. (continued)

RECEIVED
NOV 22 2002
TECH CENTER 1600/2900